

Memo

To: Surveillance File
From: Karen Chandler
Date: May 5, 2005
Subject: Overflow at Colony Cove Mobile Home Park-3951 S. Mentor

This morning when I was picking up hauled waste manifests at the SWTP, Bob Weller, one of the drivers for Reed's Plumbing said he had pumped the lift stations at Colony Cove MHP and they had had an overflow at one of them. He told me they have two lift stations and sewage had been running out of one of them. Mr. Weller said he could see where it had run down in the grass behind the trailer on the corner on the back side of the park. I went to Colony Cove at 4:00 p.m. to look at the lift station. I saw where the sewage had run out on the ground behind trailer #131, and it had an odor. I went to the office and talked to Pat Johnson, the office manager, about the overflow. She said they had the pump stations pumped yesterday, but she was unaware that sewage had run out of one of them. I told her she needed to call the MDNR about this, which she did while I was there. We both talked to Tina White in the DNR office. Tina told her to write a letter within five days and send it to Kevin Hess, the Water Pollution Unit Chief. Tina also suggested that they apply lime to where the sewage had overflowed.


Karen Chandler
IPP

3951 S. Mentor

3.150 Greene County
Coronado Mobile Home Park

JRL

October 4, 1978

Mr. Randy Sutton
Mobilae Partnership
Suite 405, Plaza Towers
Springfield, MO 65804

Dear Mr. Sutton:

A review of our files discloses that you have again failed to submit the quarterly discharge monitoring report for the wastewater treatment facility serving Coronado Mobile Home Park in Greene County, Missouri. The report was due by July 28, 1978 and was to cover the period of April 1 - June 30, 1978.

The next report is to be submitted by October 28, 1978 and is to cover the period of July 1, 1978 through September 30, 1978.

If you are assured that no discharge will occur in the future and do not wish to submit monitoring reports, you may wish to request that the permit be terminated. Please note, however, that any discharge which might occur after the permit is terminated will constitute a violation of state and federal laws.

Your prompt reply concerning the future of your permit and your submittal of the second and third quarter reports will be expected. If you have any questions, please advise.

Sincerely,

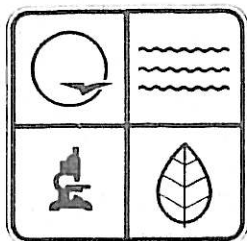
Charles L. Kroeger

Charles L. Kroeger
Environmental Specialist II
Springfield Regional Office
Department of Natural Resources

CLK/jo

cc ✓ Randy Lyman, Springfield Sanitary Services

3951 S. MENTOR



M O S S O U R I

CHRISTOPHER S. BOND
GOVERNOR

DEPARTMENT OF
Natural Resources

JAMES L. WILSON
DIRECTOR

Kenneth M. Karch, Director

Division of Environmental Quality

P.O. Box 176

Jefferson City, Missouri 65101

314-751-3241

PUBLIC NOTICE
APPLICATION FOR NPDES AUTHORIZATION TO DISCHARGE

DATE: June 6, 1975

In accordance with the National Pollutant Discharge Elimination System, the applicants listed herein have applied for an authorization to discharge to waters of the State. The proposed permits pending for these discharges are consistent with applicable water quality standards, effluent standards and/or treatment requirements, or suitable timetables to meet these requirements.

On the basis of preliminary staff review and application of lawful standards and regulations, the Missouri Clean Water Commission, proposes to issue a permit(s) to discharge, subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative. Persons wishing to comment upon or object to the proposed determinations are invited to submit them in writing to: Department of Natural Resources, Division of Environmental Quality, (Missouri Clean Water Commission), P. O. Box 1368, 1014 Madison, Jefferson City, Missouri 65101 Attention: Ken Arnold. Please reference all comments to the applicable application number.

All comments received prior to July 6, 1975, will be considered in the formulation of final determinations regarding the applications. If response to this notice indicates significant public interest, public hearings may be held after due notice. Public Hearings and/or issuance of the NPDES permit will be processed according to CWC R-8, June 29, 1974. Copies of all draft permits, comments and other information are available for inspection and copying at the Department of Natural Resources, Division of Environmental Quality, (Missouri Clean Water Commission), P. O. Box 1368, 1014 Madison, Jefferson City, Missouri 65101, and at the Regional Office which recommended the permit conditions, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Regional Offices are as follows:

St. Louis Regional Office
8460 Watson Road
St. Louis, Missouri 63119
314-849-1313

Kansas City Regional Office
615 East 13th Street
Kansas City, Missouri 64106
816-274-6675

Springfield Regional Office
1155 East Cherokee
Springfield, Missouri 65807
417-883-4033

Poplar Bluff Regional Office
946 Lester Street
Poplar Bluff, Missouri 63901
314-785-9460

Macon Regional Office
231 North Rollins, P. O. Box 489
Macon, Missouri 63552
816-385-2129

Jefferson City Regional Office
1014 Madison Street, P. O. Box 1368
Jefferson City, Missouri 65101
314-751-3241

Application No. MO-0082431, Coronado Mobile Home Park, Ingram Mill Road, Springfield, Missouri 65804, owned by Mobilae Partnership, Woodruff Building, Springfield, Missouri has applied for a permit to discharge domestic wastewater to Sequiota Creek at SW $\frac{1}{4}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 9, T28N, R21W, Greene County. This discharge is an existing discharge with a design flow of 15,800 gallons/day. The proposed terms and conditions, prepared by the Springfield Regional Office are as follows:

| | PROPOSED EFFLUENT LIMITATIONS | | | PROPOSED MONITORING REQUIREMENTS | |
|---|----------------------------------|------------------------|----------------------|-------------------------------------|----------------|
| | Interim Limitations | Interim Limitations | Final Limitations | Measurement Frequency | Sample Type |
| Effective Date | Issuance | 4-10-76 | 6-1-77 | | |
| Outfall Number and Effluent Parameter(s) | Daily Average | Daily Average | Daily Average | | |

Outfall #001

| | | | | | |
|--------------------------------------|-----|-----|-----------|---------------|------|
| Flow - m ³ /Day (MGD) | N/A | N/A | N/A | once/month | |
| Biochemical Oxygen Demand | N/A | * | 30 mg/l | once/3 months | grab |
| Suspended Solids | N/A | * | 30 mg/l | once/3 months | grab |
| Fecal Coliform - organisms/100 ml | N/A | * | 200 | once/3 months | grab |
| pH - units (Not to be averaged) | N/A | N/A | 6.0 - 9.0 | once/3 months | grab |
| Dissolved Oxygen | N/A | N/A | ** | once/3 months | grab |

* Effluent limits during this period will be the average values obtained during the previous monitoring period.

** Dissolved oxygen shall be maintained at a level equal to or above 6.0 mg/l or 80% of saturation, whichever is least.

PROPOSED SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:
 - A. Submit a report with an analysis of actual sampling data demonstrating that present treatment meets the final effluent limitations by April 10, 1976, or,
 - B. If sampling data indicates an inability to meet the final effluent limitations, initiate action to achieve the effluent limitations in accordance with the following schedule:
 - (1) Completion of engineering report for improved sewage works by June 1, 1976.
 - (2) Completion of detailed engineering plans and specifications by August 1, 1976.
 - (3) Completion of construction of sewage works improvement by April 10, 1977.
 - (4) Achieve compliance with final effluent limitations by June 1, 1977.
 - C. The above plans and specifications must be approved by the Department of Natural Resources before start of construction.
 - D. The Department of Natural Resources is to be informed by September 15, 1975 of the measures or steps taken to comply with their letter dated March 19, 1974 and the Report on Investigation dated April 25, 1974.

APPLICANT INFORMATION

June 6, 1975

40

Application No. MO-0082406, Davis Subdivision, Diggins, Missouri 65636, owned by Mr. Iryl E. Davis, Box 66, Diggins, Missouri 65636 has applied for a permit to discharge domestic wastewater to a tributary of the James River at SW $\frac{1}{4}$, Sec. 25, T29N, R18W, Webster County, Missouri. This discharge is an existing discharge with a design flow of 2,000 gallons/day. The proposed terms and conditions prepared by the Springfield Regional Office are as follows:

| | PROPOSED EFFLUENT LIMITATIONS | | | PROPOSED MONITORING REQUIREMENTS | |
|---|----------------------------------|------------------------|----------------------|-------------------------------------|----------------|
| | Interim Limitations | Interim Limitations | Final Limitations | Measurement Frequency | Sample Type |
| Effective Date | Issuance | 8-1-76 | 6-29-77 | | |
| Outfall Number and Effluent Parameter(s) | Daily Average | Daily Average | Daily Average | | |

Outfall #001

| | | | | | |
|--------------------------------------|-----|-----|-----------|---------------|------|
| Flow - m ³ /Day (MGD) | N/A | N/A | N/A | once/3 months | |
| Biochemical Oxygen Demand | N/A | * | 30 mg/l | once/3 months | grab |
| Suspended Solids | N/A | * | 30 mg/l | once/3 months | grab |
| Fecal Coliform - organisms/100 ml | N/A | * | 200 | once/3 months | grab |
| pH - units (Not to be averaged) | N/A | N/A | 6.0 - 9.0 | once/3 months | grab |
| Dissolved Oxygen | N/A | N/A | ** | once/3 months | grab |

* Effluent limits during this period will be the average values obtained during the previous monitoring period.

** Dissolved oxygen shall be maintained at a level equal to or above 6.0 mg/l or 80% of saturation, whichever is least.

PROPOSED SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:
 - A. Submit a report with an analysis of actual sampling data demonstrating that present treatment meets the final effluent limitations by August 1, 1976, or,
 - B. If sampling data indicates an inability to meet the final effluent limitations, initiate action to achieve the effluent limitations in accordance with the following schedule:
 - (1) Completion of engineering report for improved sewage works by September 10, 1976.
 - (2) Completion of detailed engineering plans and specifications by October 30, 1976.
 - (3) Completion of construction of sewage works improvement by May 15, 1977.
 - (4) Achieve compliance with final effluent limitations by June 29, 1977.
 - C. The above plans and specifications must be approved by the Department of Natural Resources before start of construction.
 - D. The permittee shall provide a satisfactory plan for operation in accordance with Regulation CWC R-5, Regulation for the Submission of Applications to the Missouri Clean Water Commission for Discharge Permits and Letters of Approval. The plan for operation shall be submitted to the Department of Natural Resources by February 1, 1976.

Harold Bangsch
Chief of Environmental Hygiene
Public Health and Welfare

May 29, 1974

On May 29, 1974, at or about 1:15 p.m., I returned a call to Mrs. Otis Record, 2964 East Barton, Springfield, Missouri, and was informed that sewer effluent was being allowed to drain from the Coronado Trailer Park Lagoon.

At or about 2:00 p.m. I arrived in front of Evans & Saffle Asphalt Company at 3900 South Lone Pine, Springfield, Missouri, and found sewer effluent running across Lone Pine and flowing south in the drain ditch until this crossed Lone Pine and emptied into Sequitoa Creek.

I next checked the lagoon itself and found that a new overflow pipe had been installed in the east bank of the lagoon and that in the process, 12 to 18 inches of effluent had been allowed to drain from the lagoon. This flow of effluent flooded the gardens of four residences on East Barton and flowed through Evans & Saffle Paving until they diverted the flow to between them and the neighbor on the north.

I contacted Mr. Johnson and Mr. and Mrs. Record on East Barton and told them I would report my findings to the Clean Water Commission and to Harry Criswell, Industrial Waste Surveillance and Enforcement. I also contacted Mr. Bill Evans of Evans & Saffle Asphalt Paving Company and informed him of the same.

Thomas W. Fare
Thomas W. Fare
Vector Control Specialist

TWF:kr

cc: Mr. Stephen S. Kintner
Clean Water Commission
1150 East Latoka Street
Springfield, Missouri 65807

Mr. Harry Criswell
Public Works Department

CITY OF SPRINGFIELD, MISSOURI
SOUTHWEST WASTEWATER TREATMENT PLANT
LABORATORY ANALYSIS REQUEST

DATE IN: 5-30-74

SAMPLE DESCRIPTION AND PHYSICAL APPEARANCE: Coccarda Mobile

Park Lagoon Discharge - (BOD Bottle # 454)

CHECK ANALYSIS DESIRED:

☒ SUSPENDED SOLIDS 15 mg/l Date: 5/30/74

☒ BOD₅ <10 * mg/l Date: _____

____ COD _____ mg/l Date: _____

☒ pH 9.75 Date: 5/30/74

☒ NH₃-N 0.26 mg/l Date: 5/30/74

☒ PO₄ ORTHO 2.45 mg/l Date: 5/31/74

____ CARBON C_T 80 mg/l C_I 27 C_O 53 mg/l Date: 5-30-74

____ TOXICITY _____ Date: _____

____ HEAVY METALS (SPECIFY): _____

____ Date: _____

____ OTHER (SPECIFY): _____

____ Date: _____

REPORT OUR: Date: 6/5/74

By: Graver

* We set-up two ~~experiments~~ ^{dilutions} on this sample (5%, 10%) and neither one depleted. we didn't have sufficient sample to run stronger dilutions.

CITY OF SPRINGFIELD, MISSOURI
DEPARTMENT OF PUBLIC HEALTH AND WELFARE
LABORATORY SECTION

REPORT OF BACTERIOLOGICAL EXAMINATION OF WATER SAMPLES
SWIMMING POOLS
MEMBRANE FILTER TECHNIQUE

Samples collected by - G. Pabst, R. Lyman, J. Higgins

Date of collection - 5-30-74

Place - Litton Ind.

Date Reported - 5-30-74

| <u>Laboratory Number</u> | <u>Source of Sample</u> | <u>Fecal coliform Staphylococci per 100 ml</u> | <u>Number of Coliform Organ- isms per 100 ml.</u> | <u>Residue Chlorine</u> | <u>pH</u> | <u>Other</u> |
|------------------------------|-----------------------------|--|---|-----------------------------|-----------|--------------|
| 697 | discharge pipe | <100/100ml | <100 | | | |

Negative for inhibitory substances on ATCC6633

To meet Division of Health bacteriological standards, a swimming pool shall conform to the following:

Coliform colonies per standard sample shall not exceed two per hundred milliliter:*

AND

Staphylococci organisms per standard sample shall not exceed 50 per 100 ml.**

Where the standard plate count is used, not more than 15% of the samples covering any considerable period of time shall contain more than 200 bacteria per milliliter, as determined by the standard (35°C.) agar plate count.

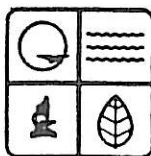
The above examinations were made by the City Health Department Laboratory in accordance with the latest edition of Standards for the Examination of Water and Wastewater.

* With use of membrane filter technique

** Proposed standard


Bacteriologist

JOSEPH P. TEASDALE
GOVERNOR



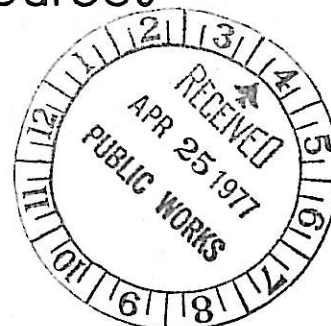
CAROLYN ASHFORD
DIRECTOR

missouri department of natural resources

2010 Missouri Blvd.
P.O. Box 1368 Jefferson City, Missouri 65101 314-751-3241

MEMORANDUM

DATE: April 15, 1977
TO: Consulting Engineers
FROM: James P. Odendahl, Director of Staff, Missouri Clean Water Commission
SUBJECT: Lagoon Design Criteria Revisions (1 MGD or Less Design Flow)



As the result of imminent changes in Environmental Protection Agency regulations on secondary treatment for waste stabilization ponds, the Division of Environmental Quality (DEQ) is adopting the following lagoon criteria for all projects involving construction grant funds. The new criteria is similar to the three-cell requirements that were in effect prior to November, 1974.

All sizing is based on the water surface area at the three-foot operating level. The first cell is designed on the basis of 34 pound BOD per acre or 200 population equivalent per acre. The second cell must be at least 0.3 the area of the first cell and the third cell 0.1 the area of the first cell. The first and second cells must have a variable operating level of between 2 feet and 5 feet. The third cell must have a variable operating level between 2 feet and 8 feet.

Theoretically, this gives a detention time of approximately 115 days based on 100 gallons per capita per day flow. In most cases where per capita flow is significantly less than 100 gallons per capita, the actual detention time will be in the range of 150 to 200 days. Where design per capita flows approach or exceed 100 gallons per day, the lagoon system must be enlarged as necessary to provide a minimum of 120 days detention time.

In addition to the sizing and depth requirement, the third cell must be designed to withdraw at varying depths below the surface as well as operate at different operating levels. The detention time in the third cell with the depth provided will allow flexibility for possible operations in the phase isolation mode, or the facility can be modified to a submerged sand filter facility.

The design shall be arranged to minimize shortcircuiting through the cells. Due consideration should be given to the direction of prevailing winds, the effect of wind on shortcircuiting, and the effect of wind mixing at the effluent structure

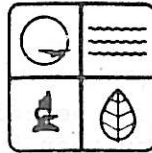
JPO/THF/lis

| PUBLIC WORKS DEPARTMENT CITY OF SPRINGFIELD | | | |
|--|--------|---------------|---|
| GM | REH. | SEE ME | |
| GDW. | WJM. | INFO. ONLY | |
| DES. | EEN. | FILE | |
| JHB. | R.R.S. | PLEASE HANDLE | Y |

Division of Environmental Quality

3951 S. MENTOR

JOSEPH P. TEASDALE
GOVERNOR



CAROLYN ASHFORD
DIRECTOR

missouri department of natural resources

2010 Missouri Blvd.
P.O. Box 1368 Jefferson City, Missouri 65101

M E M O R A N D U M

| | | |
|--|--------|---------------|
| PUBLIC WORKS DEPARTMENT CITY OF SPRINGFIELD | | |
| DGS | REH. | SEE ME |
| GDW | WJM. | INFO. ONLY |
| DES. | EEN. | FILE |
| JNR. | R.R.S. | PLEASE HANDLE |



DATE: April 15, 1977

TO: Consulting Engineers

FROM: James P. Odendahl, Director of Staff, Missouri Clean Water Commission

SUBJECT: Proposed Lagoon Construction Requirements

We have been advised by the Division of Geology and Land Survey (DGLS) that the present lagoon construction procedures in many cases result in lagoons which endanger groundwater. The Division of Environmental Quality (DEQ) has drafted the following proposed changes in lagoon construction requirements in conjunction with DGLS staff. These changes are also consistent with proposed changes in the Great Lakes - Upper Mississippi River Board of State Sanitary Engineers' Recommended Standards for Sewage Works (Ten State Standards). These changes are being circulated for comment prior to publication in the state register with other changes; however, compliance with these requirements prior to their adoption may be a condition for geologic site approval where groundwater contamination hazards may be critical. It is anticipated that all changes will be published in the state register by summer or fall, 1977.

Construction Requirements for Large Lagoons

These requirements shall apply to all municipal lagoons and all privately owned domestic and industrial lagoons serving 100 population equivalents or more.

At the facility plan stage, the DEQ may require on case-by-case basis as recommended by DGLS the submission of one or more of the following tests: particle size analysis, Atterburg limits, standard Proctor density (moisture-density relations), and permeability coefficient. These test results would likely be required in areas of questionable geology.

At the 20% design stage, soil analysis of each representative soil material including particle size analysis, Atterburg limits, standard Proctor density (moisture-density relations), and permeability coefficient of the compacted soil as measured in a falling head permeameter must be submitted. Soil borings will be required in each geological area to determine depth to piezometric surface and to bedrock. Recommendations for soil analysis and borings will be included in the geological report from the DGLS prepared at the facility plan stage.

Normally, only soil having a permeability coefficient of 10^{-7} cm/sec or less when compacted will be acceptable as a lagoon seal. Permeability coefficients of

10^{-7} cm/sec or less are expected to produce percolation losses of 500 gallons per acre per day or less when subjected to not more than 5 feet of head. Heads over 5 feet or soils with permeability coefficients greater than 10^{-7} cm/sec will be reviewed on a case-by-case basis to assure that the percolation loss limit of 500 gallons per acre per day will be met.

Normal construction methods will include over-excavation below grade level of 12 inches, scarification and compaction of base material to 95% Proctor density at moisture content between 2% below and 4% above optimum, and compaction of lifts generally not exceeding 6 inches to 95% Proctor density at moisture content between 2% below and 4% above optimum. Maximum rock size should not exceed $\frac{1}{2}$ of the thickness of the compacted lift. The cut face of dikes must also be over-excavated and compacted in lifts not to exceed 6 inches per lift. Soils containing plastic clay may be excluded from this construction requirement on a case-by-case basis based on particle size analysis and Atterburg limits. In fact, with some clay soils, satisfactory construction cannot be obtained by over-excavation and recompaction.

Construction control must include field density. A minimum of two density tests per acre or not less than three tests must be performed for the base and each lift. Permeability tests of field compacted material may be performed at the option of the consulting engineer.

Following construction, the lagoon must be prefilled and checked for percolation losses. Any measurable percolation losses will be considered unacceptable. Measurement of percolation losses shall consider flow into and out of the lagoon, rainfall and evaporation, and changes in water level.

If the soil seal is allowed to dry below optimum moisture content following prefilling and testing, the over-excavation and recompaction must be repeated.

Construction Requirements for Small Lagoons

These requirements shall apply to privately owned domestic and industrial lagoons serving less than 100 population equivalents.

Since many of the small facilities do not include the facility plan or 20% design phases, and because of the difficulty in obtaining laboratory services for small projects, the following requirements are to be used to meet the percolation limits outlined for municipal facilities.

At the time the DGLS makes their initial investigation they may, on basis of field tests, approve the site, grant variances to the test procedure, or recommend additional laboratory test be performed by the owner. After the necessary field and laboratory tests have been performed, and the necessary approvals obtained from DEQ, the lagoon bottom and sides are to be over-excavated 12 inches. Layers of acceptable soil material are to be replaced and compacted with sheepsfoot roller, rubber tired equipment, or other appropriate compaction equipment. Soil moisture must be maintained at a level adequate to allow the soil to be kneaded between fingers and maintain the soil in a plastic condition.

After completion of construction, the lagoon must be filled with water adequate to cover the bottom of the lagoon and to preclude vegetative growth. The use of soil sterilants in conjunction with the water is an acceptable method to prevent vegetative growths. As with the municipal facilities, if the lagoon bottom is allowed to dry it will be necessary to over-excavate the bottom and recompact as outlined previously.

((((

THE DIVISION OF HEALTH
OF MISSOURI

INTER-OFFICE COMMUNICATION

TO: All Districts and Branch Offices and County Health Department
Sanitarians

FROM: Department of Social Services, Division of Health, Bureau of
Community Sanitation

SUBJECT: Fencing of Lagoons

DATE: June 18, 1976

The following policy was adopted by the Missouri Clean Water Commission
at its meeting on April 22, 1976:

Wastewater treatment facilities of any nature shall be enclosed
with a fence and gate equipped with a lock so as to discourage
entrance by children. In addition, the fence and gate shall
have permanently fastened thereon warning signs containing visual
identifications of danger easily recognizable by and to warn
children of the danger. This policy becomes effective immediately
and applies to all facilities proposed or in existence.

Minimum height - 5 feet. Examples of fencing acceptable are
chain link or woven wire.

EPG:sdl



MISSOURI CLEAN WATER COMMISSION

fib

3.150 Greene County
Coronado Mobile Home Park

April 26, 1974

Mr. Michael H. Condict
2364 Ingram Mill Road
Springfield, Missouri 65804

Dear Mr. Condict:

Enclosed is a copy of a report on investigation of an unauthorized spill from the waste stabilization lagoon serving the Coronado Mobile Home Park in Springfield, Missouri which I believe is self explanatory.

I trust you will direct your attention to the recommendations contained in this report.

Yours truly,

James A. Burris

James A. Burris, P.E.
Acting Regional Engineer
Missouri Clean Water Commission

JAB/SSK/cg

C.C. J. Douglas Cassity, Attorney
Hon. Paul Coffman, Judge Municipal Court
City of Springfield Sanitary Services
City of Springfield Health Department, Attention: Tom Fare
Central Office, Attention: Bob Hentges, Spill Officer

REPORT ON INVESTIGATION OF AN UNAUTHORIZED DISCHARGE
OF WASTEWATER

MISSOURI CLEAN WATER COMMISSION

CORONADO MOBILE HOME PARK

Springfield, Missouri

April 26, 1974

INTRODUCTION:

On April 19, 1974 a representative of the Missouri Clean Water Commission investigated an unauthorized discharge of water contaminants from the waste stabilization lagoon which serves the Coronado Mobile Home Park. These facilities are located in the SW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 9, T28N, R21W, Greene County, Missouri. As a result of this investigation the following unsatisfactory features are indicated and recommendations are made for their correction.

UNSATISFACTORY FEATURES:

1. The unauthorized discharge of waste water.

COMMENTS:

This discharge was the result of a trench being cut in the east berm of the lagoon. Apparently, the purpose of the trench was to prevent the lagoon from discharging over the top of the north berm. Calculations indicate that a quantity of waste water in excess of 150,000 gallons was released by the trench. The downstream property owners indicated the discharge had occurred between 3:15 p.m. and 4:30 p.m. on April 18, 1974. They also indicated that the discharge had damaged their property. Several gardens appeared to have been washed out by the discharge. The discharge would appear to have ultimately entered Sequoita Creek. However, at the time of this investigation the discharge had been stopped by a temporary dam across the trench.


It is a violation of Section 204.051 of the Missouri Clean Water Law to alter, operate, use, or maintain a water contaminant or point source in this state without a permit from the Commission.

A review of Commission files indicates that the owners have been informed on several occasions that the structural condition of this lagoon was a hazard to the waters of the state. The owners should make whatever improvements are necessary to assure that unauthorized discharges will not occur in the future.

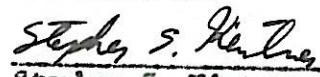
RECOMMENDATIONS:

1. That the effluent pipe be installed in accordance with the "Guide for the Design of Small Sewage Works."
2. That the slope of the north berm be flattened.
3. That a minimum of 2-feet of freeboard be provided at all times.
4. That the Missouri Clean Water Commission be notified when any work is being done on the lagoon which might result in a discharge.
5. That the Missouri Clean Water Commission be notified immediately when a discharge does occur.
6. That the owners inform the Commission within 30 days as to what steps they will take to prevent future unauthorized discharges.

APPROVED BY:


James A. Burris, P.E.
Acting Regional Engineer

SUBMITTED BY:


Stephen S. Kintner
Water Quality Specialist I

Coronado Mobile
Home Park
Lagoon Discharge

A 4 2 9 6 2 1 D 11

5-30-74

3 10:00 A.M.

Coronado Mobile
Home Park
Lagoon Discharge

A 4 2 9 6 2 1 D 11

5-30-74

1 10:00 A.M.

Coronado Mobile
Home Park
Lagoon

A 4 2 9 6 2 1 D 11

Discharge Pipe

5-30-74

4 10:00 A.M.

POLYCOLOR ©
Coronado Mobile
Home Park
Lagoon Discharge

A 4 2 9 6 2 1 D 11

5-30-74

2 10:00 A.M.

3.150 Greene County
Coronado Mobile Home Park

March 19, 1974

Mr. Michael H. Condict
2364 Ingram Mill Road
Springfield, Missouri 65804

Dear Mr. Condict:

In response to your application for a permit to operate the waste treatment facilities which serve the Coronado Mobile Home Park in Greene County, an inspection was made on March 4, 1974.

The condition of the facilities appear to be little improved from those observed on August 13, 1973. The following unsatisfactory features still need to be corrected.

1. The effluent pipe appears to have been improperly installed as the lagoon had only a few inches of freeboard. The pipe must be installed such that a minimum of 2-feet of freeboard can be maintained. Form 3.17S may be consulted for the proper installation of the effluent pipe.
2. A splash pad and out-fall structure should be constructed to minimize erosion and facilitate the collection of samples and flow data.
3. The berm on the north side of the lagoon is still very steep and rough. The berms should be smoothed and leveled to minimize erosion. The top of the berms should be a minimum of 4-feet wide.
4. Grass must be planted as soon as possible to prevent the erosion of the berms.
5. The emergent vegetation at the water's edge must be controlled.
6. The storm diversion on the southeast side of the lagoon must be improved to prevent the entry of run-off.
7. Warning signs stating "Keep Out - Sewage Lagoon" or something to this notion shall be placed on all sides of the lagoon.

Please notify this office within 15 days as to the date by which these deficiencies will be corrected.

Your application form is being returned as you apparently neglected to sign and date it. The name of the facility should also be filled in.

If you have any questions concerning this matter, please advise.

Yours truly,

Stephen S. Kintner
Water Quality Specialist I
Missouri Clean Water Commission

SSK/cg

Enc.

C.C. J. Douglas Cassity, Attorney
Hon. Paul Corbin, Judge Municipal Court

City of Springfield Sanitary Services
Central Office
Enforcement

MISSOURI CLEAN WATER COMMISSION

3.150 Greene County
Coronado Mobile Home Park

December 6, 1973

Mr. Mike Condict
Condict Construction, Inc.
2364 South Ingram Mill Road
Springfield, Missouri 65804

Dear Sir:

A review of our files indicates you have not yet applied for a permit to operate the waste treatment facilities which serve the Coronado Mobile Home Park in Springfield, Missouri. A letter from Mr. J. Douglas Cassity, dated October 15, 1973, indicated the work on the facility would be completed in 8 to 9 working days from that date.

It is a violation of the Missouri Clean Water Law to operate a water contaminant source (waste treatment facility) without a permit from the Missouri Clean Water Commission and is subject to the penalties contained therein.

If at any time after January 1, 1974 a discharge is found to be occurring from this facility and application has not been made for an operating permit this matter will be referred to enforcement.

If you have any questions concerning this matter, please advise.

Yours truly,

Stephen S. Kintner
Water Pollution Control Technician I
Missouri Clean Water Commission

SSK/cg

C.C. J. Douglas Cassity, Attorney-at-Law
Hon. Gerald Gleason, Judge Municipal Court
✓City of Springfield Sanitary Services
Division of Health, District 5
Central Office
Don Williams, Enforcement M.C.W.C.

3951 S. Monitor

MISSOURI CLEAN WATER COMMISSION

3.150 Greene County
Coronado Mobile Home Park

August 17, 1973

Mr. Robert Hawkins
P. O. Box 458
Springfield, Missouri

Dear Mr. Hawkins:

Enclosed is a copy of a report on investigation on the waste treatment work which serves the Coronado Mobile Home Park, Springfield, Missouri, which I believe is self explanatory.

A review of our files indicates that a valid operating permit does not exist for the waste treatment facility which now serves this mobile home park. The Missouri Clean Water Law provides that all water contaminate sources (waste treatment facilities) shall obtain an operating permit from the Clean Water Commission. Further consideration of the issuance of an operating permit can not be given until the recommendations outlined in this report have been complied with.

This office must receive a schedule of completion for the recommendations contained in this report by September 3, 1973.

If you have any questions please advise.

Yours truly,

James A. Burris

James A. Burris, EIT
Acting Regional Engineer
Missouri Clean Water Commission

JAB/SSK/cg

C.C. Judge Gerald Gleason, Municipal Court
Department of Sanitary Services, Springfield
Division of Health, District 5
Jerry Croy, Enforcement Officer
Central Office

MISSOURI CLEAN WATER COMMISSION

REPORT ON INVESTIGATION OF WASTE STABILIZATION LAGOON

CORONADO MOBILE HOME PARK

Greene County, Missouri

INTRODUCTION:

On August 13, 1973, an investigation was made of the condition and operation of the waste stabilization lagoon serving the Coronado Mobile Home Park, located SW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec 9, T28, R21W, Greene County. At the time of the investigation, the following unsatisfactory features were observed, and recommendations are made for their correction.

UNSATISFACTORY FEATURES:

1. The vegetation growth on the berm of the lagoon showed no signs of being controlled on a regular basis.
2. Debris such as an old tire were found to be floating in the lagoon.
3. An adequate number of signs stating the nature of the facility and warning people to "Keep Out" had not been provided.
4. The facility was not enclosed in a stock-tight fence. The fence which had been provided was in a state of poor repair and the gates were broken down or missing.
5. Erosion was occurring below the outfall pipe and there was evidence of burrowing animals near the outfall pipe on the east side of the lagoon.
6. The berms on the north and west sides of the lagoon appeared to have a slope of 1 to 1 or steeper.
7. Large rocks and rubble had been used as fill material along the outside, west slope of the lagoon.
8. The inside north and west slopes of the lagoon appeared to have a slope of 1 to 1 or greater.
9. The lagoon appeared to have less than two feet of freeboard at the lowest point; however, it was impossible to accurately determine the exact amount of freeboard due to the high weed growth.
10. The top of the berms contained several trenches and uneven spots.

COMMENTS:

In general the lagoon was characterized by poor maintenance and improper upkeep. The defects noted in the lagoon's construction could result in structural failure of the lagoon. These unsatisfactory features have been pointed out in numerous previous reports.

The operation of a waste stabilization lagoon without an operating permit is a violation of the Missouri Clean Water Law, Chapter 204, Sec 204.051, RSMo.

Failure to comply with the Missouri Clean Water Law can result in assessment of penalties.

MISSOURI CLEAN WATER COMMISSION

Report on Investigation
Coronado Mobile Home Park

August 17, 1973

RECOMMENDATIONS:

1. That a regular schedule of routine maintenance and upkeep be provided for such items as:
 - a. Maintaining the vegetation growth on the berms of the lagoon between 2-6 inches in height.
 - b. The removal of debris from the lagoon.
 - c. The removal of burrowing animals.
 - d. The control of erosion.
 - e. The placing and maintenance of the proper signs. The signs should state "Keep-Out-Sewage Lagoon" or something of that nature.
 - f. The upkeep of gates and fences.
2. The outfall pipe should be lowered to provide a minimum of 2-feet of freeboard at the 3 foot operating level.
3. The rocks and rubble that have been placed along the outside of the west berm should be removed.
4. The outside of the north and west berms should be flattened to a slope of 3:1 with well compacted fill as was stated in the Missouri Geological Survey report dated September 27, 1973.
5. A concrete splash pad should be placed under the outfall pipe.
6. A stock-tight fence should be provided on all sides of the lagoon.
7. The inside of the berms should have a slope of 3 to 1 to facilitate maintenance.
8. The top of the berms should be smoothed and leveled to facilitate maintenance.

APPROVED BY:

James A. Burris
James A. Burris, E.I.T.
Acting Regional Engineer

SUBMITTED BY:

Stephen S. Kintner
Stephen S. Kintner
Water Pollution Control Technician

20.7 Greene
Coronado Mobile Home Park

February 14, 1973

Mr. Robert Hawkins
Route 3
P.O. Box 458
Springfield, Missouri

Dear Mr. Hawkins:

We are in receipt of a copy of a letter from Howard G. Moore & Company dated February 8, 1973 which indicates that you have not retained an engineer to complete corrective work on the lagoon serving Coronado Mobile Home Park.

The Clean Water Commission has been more than patient with you in trying to get the problems with the lagoon corrected. In view of all the delays and the fact that nothing has yet been accomplished to the satisfaction of the Commission, the entire matter is being forwarded to our enforcement offices for appropriate action.

Yours truly,

Charles S. Decker, E.I.T.
Regional Engineer
Springfield Regional Office
Missouri Clean Water Commission

CSD/cg

C.C. ✓ Springfield Sanitary Services
Howard Wright, City Attorney
Springfield City Health Department
Missouri Geological Survey
Central Office

20.7 Greene
Coronado Mobile Home Park

January 22, 1973

Mr. Robert Hawkins
Route 3
P.O. Box 458
Springfield, Missouri

Dear Mr. Hawkins:

Please find enclosed a copy of our letter to you dated January 4, 1973. The date for reply to that letter was January 18, 1973. We have no record of a reply as of this writing.

Please submit the required information as soon as possible. Failure to reply by January 31, 1973 will leave us no alternative but to forward the matter to our Enforcement Officer.

Yours truly,

Charles S. Decker, E.I.T.
Regional Engineer
Springfield Regional Office
Missouri Clean Water Commission

CSD/cg

C.C. Central Office Attn.: Charles Stieffermann
Jerry Croy

✓ Springfield Sanitary Services
Howard Wright, City Attorney
Springfield Health Department
Missouri Geological Survey

20.7 Greene
Coronado Mobile Home Park

January 4, 1973

Mr. Robert Hawkins
Route 3
P. O. Box 458
Springfield, Missouri

Dear Mr. Hawkins:

A review of our files indicates that your operating permit for wastewater works serving Coronado Mobile Home Park, Greene County Missouri was voided on November 10, 1972. A letter sent to Mrs. Hawkins, in your absense, on October 16, 1972 outlined several recommendations to bring the lagoon into compliance with our minimum standards.

As it is unlawful to operate a water contaminant source without a permit we request the following:

1. Have your consulting engineer certify that the remedial earthwork on the northern and western dikes have been completed in accordance with the Missouri Geological Survey's recommendations, previously forwarded to you.
2. Complete the enclosed application for permit and return it to this office. Please note the filing fee requirements.

Upon receipt of engineer certification and application for permit a final inspection will be scheduled. City officials will be asked to accompany and participate in the inspection. You will be given written notice of the date and time of inspection in order that you and/or your engineer may be present.

We shall expect your reply by January 18, 1973.

Yours truly,

Charles S. Decker, E.I.T.
Regional Engineer
Springfield Regional Office
Missouri Clean Water Commission

CSD/cg

Enc.

C.C. ✓ Paul Hickman, Supt. of Sanitary Serv.
Howard Wright, City Attorney
Springfield Health Department
Missouri Geological Survey
Central Office Attn.: C. Stieffermann
Jerry Croy

20.7 Greene

October 16, 1972

Mrs. Robert Hawkins
Route 3
P. O. Box 458
Springfield, Missouri

Dear Mrs. Hawkins:

This is to confirm our meeting of October 16, 1972 at the Coronado Mobile Home Park lagoon.

An inspection of the lagoon indicates that you have pumped the water level down sufficiently to halt the overtopping of the dike. The leak has also stopped. You also indicated that your contractor would start work on the earth work as soon as the lagoon dikes were sufficiently dry.

Our recommendations are as follows:

1. Obtain an easement from the north property owner to allow a discharge of lagoon effluent on his property.
2. Continue to pump the lagoon until a minimum of 2-foot of freeboard is available at all points on the lagoon dikes.
3. Replace the lagoon effluent pipe to maintain the 2-feet of freeboard.
4. Contact a registered professional engineer to oversee the earth work and advise you on means of effluent disposal i.e. irrigation.
5. Conduct the necessary maintenance on the lagoon such as mowing the vegetation.
6. Apply for the necessary permits as required by the Clean Water Law.

If you have any questions, please advise.

Yours truly,

Charles S. Decker, E.I.T.
Regional Engineer
Springfield Regional Office
Missouri Clean Water Commission

CSD/cg

G.C. Howard Wright, City Attorney
✓ Paul Hickman, Supt. of San. Serv.
City Health Department
Missouri Geological Survey

Attn: Jim Williams
Central Office THRU: C. Stiefernann
Jerry Croy

ROBERT L. HAWKINS

OLD SOUTHERN HILLS
LAKE HILL AVENUE
ROUTE 3, BOX 458
SPRINGFIELD, MISSOURI 65805

10/1/72

Dear Sir:-

Re: Re: - 20.7 Acres
Crownack Mtn. Off. Paulk,

Work is under way & will be finished
as recommended by Charles Desker. of

9/27/72

Sincerely Yours
R.L. Hawkins, Jr.
of R.L. Hawkins

cc. Paul Hawkins
Charles Desker
Jane Wilkerson

R. K. Harkins
Rt. 3 Box 450
Springfield, MO.



Paul Harkins
City Health Dept.
Greene County Planning & Zoning
Central Office
Springfield
MO.

20.7 Greene
Coronado Mobile Home Park

September 29, 1972

Mr. Robert Hawkins
Route 3
Springfield, Missouri

Dear Mr. Hawkins:

Please find enclosed two documents relating to the sewage lagoon serving Coronado Mobile Home Park. Our records indicate that you are the present responsible party for the lagoon.

The first enclosure is a Report of Investigation completed by our staff in regard to the waste treatment facilities. We recommend that you consider carefully the recommendations of that report and indicate your intentions by October 13, 1972 to comply with the recommendations. Of immediate importance is the second enclosure which is a report by the Missouri Geological Survey. Please note that the leaking lagoon is considered to be in "imminent danger of failure by collapse." As such failure could endanger lives and property, as well as create a water pollution problem, it is requested that you contact this office no later than 5:00 p.m., October 2, 1972, to discuss your progress in remedial construction outlined in the geologist report. It will be required that a qualified person oversee the construction measures and certify the measures were completed in accordance with the geologists recommendations. We recommend that a registered professional engineer be retained to provide this service.

Sincerely,
Yrs truly,

R.S. Decker,
Sr. Engineer
Missouri Regional
CSD San Water

Enc.

C.C. ✓

Geopartme
Planning

Commission

REPORT ON INVESTIGATION OF WASTE STABILIZATION LAGOON
CORONADO TRAILER PARK, GREEN COUNTY, MISSOURI

September 27, 1972

INVESTIGATION:

On September 18, 1972, an investigation was made of the condition and operation of the waste stabilization lagoon serving the Coronado Trailer Park, located SW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 9, Twp. 28, R21W in Greene County. This investigation was made due to the numerous complaints this office has recently received concerning the condition and operation of this lagoon. At the time of the investigation, the following unsatisfactory features were observed, and recommendations are made for their correction.

UNSATISFACTORY FEATURES:

1. The vegetative growth on the berm of the lagoon was not being maintained and showed no signs of recent maintenance.
2. Floating debris including a 2 x 4 piece of wood 4 feet long was found to be floating in the lagoon.
3. No overflow structure could be located.
4. The facility was not enclosed in a fence of good repair.
5. The one existing "Keep Out" sign was barely readable.
6. The lagoon was discharging by overflowing the northern berm. A large amount of erosion at the point of overflow had taken place.
7. Seepage or leakage of the lagoon at the southwest corner was evident.

COMMENTS:

This facility has been inspected on prior occasions, and reports have been submitted for your action. Prior inspections and reports have been recorded on these dates:

July 18, 1968
September 23, 1968
February 26, 1969

April 9, 1969
September 10, 1969
June 11, 1970

July 16, 1970
August 11, 1970
April 29, 1971

In each of these reports poor maintenance was strongly indicated. In letters from our office dated March 24, 1969 and February 26, 1969, Woodcliff Enterprises was warned that retaining an operating permit is conditional on proper maintenance. With this in mind, I make the following recommendations.

Report on Investigation
Coronado Trailer Park

Page 2

RECOMMENDATIONS:

1. Mow vegetation growing on the lagoon berms.
2. Remove all debris from the lagoon.
3. Repaint the warning sign and place more new ones around the lagoon where they can be easily seen.
4. Repair the existing fence so that it will completely enclose the lagoon.
5. Maintain the required 2 feet freeboard.
6. Due to the leakage, overflow, and erosion, I recommend a state geological engineering report be submitted upon the soundness of the lagoon structure.
7. Revocation procedures should be started immediately and issuance of the required permit be withheld until Woodcliff Enterprises meet the minimum requirements of lagoon maintenance set forth in this report.

SUBMITTED BY:

David R. Duffield
Water Pollution Control Technician
Springfield Regional Office
Missouri Clean Water Commission

APPROVED BY:

Charles S. Decker, E.I.T.
Regional Engineer
Springfield Regional Office
Missouri Clean Water Commission

SEP 20 1972

WASTE TREATMENT WORKS-ENGINEERING GEOLOGIC REPORT
Missouri Geological Survey and Water Resources
Box 250, Rolla, Missouri 65401 (314) 364-1752

1. Project Coronado Trailer Park Lagoon County Greene Date 9-20-72
2. Owner Cliffwood Enterprises Address _____
3. Location S 1/4 NW 1/4, sec. 9, T. 28, R. 21, Quad. _____
4. Sketch and/or brief location description:

REPORT ON ENGINEERING GEOLOGY OF LAGOON SITE
(to be filled in where applicable by the geologist making the investigation)

5. It is recommended that this site be geologically accepted _____, rejected _____
relocated _____, rejected unless remedial work is performed X.
6. Is stream in which effluent discharges gaining? _____ If losing, explain X

7. Is there any danger to groundwater supplies? Yes. If yes, what Seepage
through permeable soil and bedrock enters groundwater aquifers.
8. Topography: flat _____, moderate slope X, steep slope _____,
hilltop _____, narrow ravine _____, valley floor _____.
9. General condition existing lagoon - extremely poor construction (see remarks)

10. Type and condition of bedrock pinnacled, permeable and cavernous limestone

11. Type and engineering characteristics of soil stoney red clay, low density,
and highly permeable

12. Depth of excavation should not exceed not applicable or an elevation of _____
13. If located on floodplain, what effect on flow of flood waters None

(over)

14. Suggested remedial treatment:

compaction X, dirt pad____, artificial sealant____,
diversion of subsurface flow____, rock excavation____, discharge point____

Explanation: See Below

15. The site should be revisited by an Engineering Geologist:

during construction____, after construction X, not necessary____

Remarks: The west and north, especially the north dike, are in imminent danger of failure by collapse. The slopes are 1:1 and steeper. Seepage is occurring through the dike and discharge from the lagoon is flowing over the dike. Typically the red clay soil on overly steep slopes, fails instantly when the liquid limit, essentially a state of saturation, is reached. Remedial treatment must begin immediately. This will have to consist of flattening the slopes to at least 2:1, preferably 3:1, by placing a well compacted fill. This fill must be placed by spreading in layers or lifts, not thicker than 1 foot at a time. So the fill is brought up against the original dike, vegetation and saturated clay should be removed by knotching into the original slope.

THIS REPORT IS VALID ONLY AT THE ABOVE LOCATION AND BECOMES INVALID ONE YEAR AFTER THE DATE OF ISSUANCE.

Missouri Geological Survey report by James H. Williams, 9-27-72
James H. Williams, Geologist Date

I (owner and/or engineer) hereby certify that recommendations contained in this report were complied with during construction.

(signature)

(date)

NOTE: After construction is completed the owner or his legal representative is to sign in the place provided and return to the Missouri Water Pollution Board, 112 West High, P. O. Box 154, Jefferson City, Missouri 65101.

Lagoon File

5.3 Springfield
Coronado Trailer Park

August 24, 1970

Mr. Harold Bengsch
City Health Department
City Hall
Springfield, Missouri 65802

Dear Mr. Bengsch:

On August 11, 1970, I made an inspection of the lagoon serving the Coronado Trailer Park, Springfield, Missouri. This was a follow-up to our inspection of July 16, 1970, and our letter of July 22, 1970. At the time of the inspection on August 11, 1970, the water level was approximately 12 to 15 inches below the lowest point on the dike; however, the water level was approximately 12 inches below the elevation at which the lagoon will discharge through the outlet pipe.

Our requirements state that the freeboard or the vertical distance from the discharge elevation shall be two feet.

Yours truly,

Ted H. Forester, E.I.T.
Field Engineer

THF/aw

CC: Robert L. Hawkins
Allen E. Salts
Paul T. Hickman ✓

5.3 Springfield
Coronado Trailer Park

July 22, 1970

Mr. Robert L. Hawkins, President
Woodcliffe Enterprises
2045 South Waverly
Springfield, Missouri 65804

Dear Mr. Hawkins:

On July 16, 1970, representatives of the Missouri Water Pollution Board reinspected the waste stabilization lagoon serving the Coronado Trailer Park, Springfield, Missouri. At that time it was noted that the surface water had been excluded and the influent line appeared to have been repaired. The following items had not been corrected.

1. Repairs on the dike had not been completed in the area of the influent line.
2. The dike had not been repaired in the northwest corner to provide two feet of freeboard above the operating level.
3. The fence and signs had not been installed around the lagoon.

Since improvements had been made at the time of the inspection, additional time is granted for correction of the remaining items. If an inspection reveals that all items have not been corrected by August 7, 1970, the case will be referred to the Attorney General's Office for legal action.

Yours truly,

Jack K. Smith
Executive Secretary

JKS/THF/bk

CC: Mr. Allen E. Salts, Secretary
Mr. Paul Hickman, Supt. San. Services
City Health Department



5.3 Springfield
Coronado Trailer Park

June 30, 1970

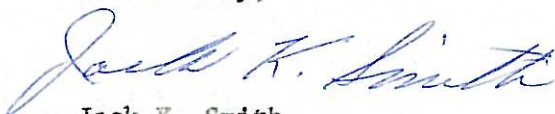
Mr. Robert L. Hawkins, President
Woodcliffe Enterprises
2045 South Waverly
Springfield, Missouri 65804

Dear Mr. Hawkins:

Enclosed is a copy of a report on investigation of the waste stabilization lagoon serving the Coronado Trailer Park, Springfield, Missouri, which I believe is self explanatory.

I trust you will direct your attention to the recommendations contained in this report.

Yours truly,



Jack K. Smith
Executive Secretary

JKS/THF/fw

CC: Mr. Allen E. Salts, Secretary
Sanitary Services, Springfield, Mo. ✓
City Health Department

REPORT ON INVESTIGATION OF WASTE STABILIZATION LAGOON
Coronado Trailer Park
Springfield, Missouri
June 30, 1970

INTRODUCTION:

An investigation was made of the condition and operation of the lagoon serving the Coronado Trailer Park, Springfield, Missouri, on June 11, 1970. At the time of the investigation, the following unsatisfactory features were observed, and recommendations are made for their correction.

UNSATISFACTORY FEATURES:

1. The influent line was discharging at the surface.
2. Two trenches were cut through the dikes on the upper side allowing surface water from a 5 to 10 acre area to enter the lagoon.
3. The dike at the northwest corner was only one to two inches above water surface and showed evidence of having been topped.
4. No fence or signs were installed around the lagoon.

COMMENTS:

The influent line apparently had become plugged. A trench had been cut through the dike to repair this line; however, the repair work had stopped after a hole was cut in the line allowing the sewage to enter the trench and then flow through the trench into the lagoon. Solids were accumulating in the trench. Another trench had been cut into the southeast corner of the lagoon. Both trenches appeared to have been open for some time.

During previous inspections it was noted that the effluent pipe appeared to be too high to allow discharge through the pipe. This was evidenced by the water level at the top of the dike while the higher end of the pipe was approximately 10-inches above water level.

The surface inlet, the excessive amount of surface runoff into the lagoon, and discharge by topping of the dike would render this lagoon almost useless as a reliable treatment facility. The surface inlet through the trench creates nuisance and odor problems. The large amount of surface water and topping of the dike could completely wash out the lagoon dike.

RECOMMENDATIONS:

1. That the existing influent line be cleaned and repaired or replaced.
2. That the dikes be rebuilt with compacted fill to their original height across the open trenches.
3. That the effluent line and the low dike be repaired or rebuilt so as to provide a water depth of 3 feet to the discharge elevation of the effluent line and 2 feet of free board from the discharge elevation to the lowest point on the dike.

4. That these corrections be complete as soon as possible and not later than July 15, 1970. Failure to complete these corrections by July 15, 1970, may result in legal action by the Missouri Water Pollution Board and loss of Operating Permit No. W-3492.

SUBMITTED BY:

Ted H. Forester
Ted H. Forester, E.I.T.
Field Engineer

APPROVED BY:

Jack K. Smith
Jack K. Smith
Executive Secretary

Lagoon File

CITY OF SPRINGFIELD
INTER-OFFICE MEMORANDUM

ATTENTION OF Mr. Paul Hickman

DATE March 4, 1970

DEPARTMENT Public Works

Attached you will find a written report of the sanitarians findings
of the lagoon for the Coronado Mobil Park.

/th

Attachment

SIGNED *Thos. W. Bengtson*
Superintendent of Public Health Sanitation

March 3, 1970

Subject: Coronado Mobil Park
Mentor St.
Galloway, Missouri

Bob Wilson and myself went to Coronado Mobil Park to check on a complaint phoned in by Mrs. Church, who lives on Allen Place, next to the lagoon. We went, by Harold Bengsch's request. Mrs. Church stated on the phone to Harold Bengsch, that the lagoon was leaking and running water down close to her house.

We contacted a Mr. Opie Bandy, the contractor foreman on the grading of streets and laying sewers, and water lines, and improving the lagoon. The North bank, west bank, and south bank from west to east for about 50 feet is to be built up about 5 feet higher--the overflow pipe located in the east bank is to be removed, and a large pipe installed, and at a lower level--the foreman, Mr. Bandy, said he thought the lagoon would accommodate about 200 Mobil Homes.

The water was seeping from the sewer pipe going into the lagoon--the pipe was stopped or plugged, and they were working to unplug and correct the line--the water was seeping around Southwest bank of lagoon, but wasn't down to Mrs. Church's house--banks of lagoon was not leaking. I talked to Mrs. Church--seemed to be satisfied.

Gene Griffin

P.S. Mr. Bandy said the contract called for fencing the lagoon.

CITY OF SPRINGFIELD
INTER-OFFICE MEMORANDUM

ATTENTION OF Jack Newman, Director

DATE September 4, 1969

DEPARTMENT Health Department

Attached is a copy of a letter I received this morning from the Missouri Water Pollution Board. I would appreciate it if both you and Earl White would be able to accompany us on this inspection tour.

PTH:cc

Attachment

SIGNED Paul T. Hickman, P.E., Supt.
Sanitary Services

BASIN OFFICES

Room 449, State Office Building
615 East 13th Street
Kansas City, Missouri 64106
Telephone 816 274-6675

8460 Watson Road
St. Louis, Missouri 63119
Telephone 314 849-1313

James A. Dunn
Special Assistant
Attorney General



MISSOURI WATER POLLUTION BOARD
THE DEPARTMENT OF PUBLIC HEALTH AND WELFARE
112 WEST HIGH, P. O. BOX 154
JEFFERSON CITY, MISSOURI 65101
TELEPHONE 314 635-9117

Robert A. Mueller, Chairman
St. Louis
Theodore G. Scott, Vice Chairman
Buffalo
Danny L. Dodson, M.D.
St. Louis
Clarence C. Houk
Potosi
Raymond Krebs
Springfield
M. W. Stauffer
Maryville
Jack K. Smith
Executive Secretary

5.3 Springfield

September 3, 1969

Mr. Paul T. Hickman
Supt. of Sanitary Services
City Hall
Springfield, Missouri 65802

Representatives of the Missouri Water Pollution Board will be in Springfield, Missouri on September 10, 1969, to make another inspection of the sanitary waste treatment facilities serving the following:

1. Candlelight Trailer Park
2. Coronado Trailer Park
3. Dayton Trailer Court
4. Hi View Mobile Park

We would like to start our inspections at 8:15 a.m. and would appreciate having personnel from your department and the city health department accompany us.

Wilbur D. Krogstad
Wilbur D. Krogstad, Jr., E.I.T.
Field Engineer
Missouri Water Pollution Board

WDK/fs